1633 USER GUIDE DIN RAIL MOUNTED RTD/RESISTANCE/SLIDE WIRE TRIP AMPLIFIER

IMPORTANT - CE & SAFETY REQUIREMENTS

Important - Potentially Hazardous situations. Persons responsible for the installation and operation of this equipment must be fully aware of all aspects of this guide. Failure to follow the instructions can cause severe injuries and damage.
This product is suitable for environment Installation category II pollution degree. The product is classed as "PERMANENTLY CONNECTED EQUIPMENT", and must be DIN rail mounted, inside a suitable enclosure providing environmental protection to IP65 or greater.
Dc supply must be derived from a local supply and not a distribution system. Max relay contact rating 250 V AC @ 1 a (30 V DC @ 1A). Any circuit connected to a contact must be fused with a 2 A (T) fuse.
To maintain CE EMC requirements , input and supply wires must be less than 30 metres. The product contains no serviceable parts , or internal adjustments. No attempt must be made to repair this product. Faulty units must be returned to supplier for repair. This product must be installed by a qualified person. All electrical wiring must be carried out in accordance with the appropriate regulations for the place of installation. Before attempting any electrical connection work, please ensure all supplies are switched off.

ABSOLUTE MAXIMUM CONDITIONS (To exceed may cause damage to the unit):-

Supply Voltage	± 50 V dc (Protected for over voltage and reverse connection)
Current with over voltage	± 200 mA
Input Voltage	± 5 V between any terminals
Input Current	± 10 mA between terminals
Ambient	Temperature (-30 to 75) °C Humidity (10 to 95) % RH (Non condensing)

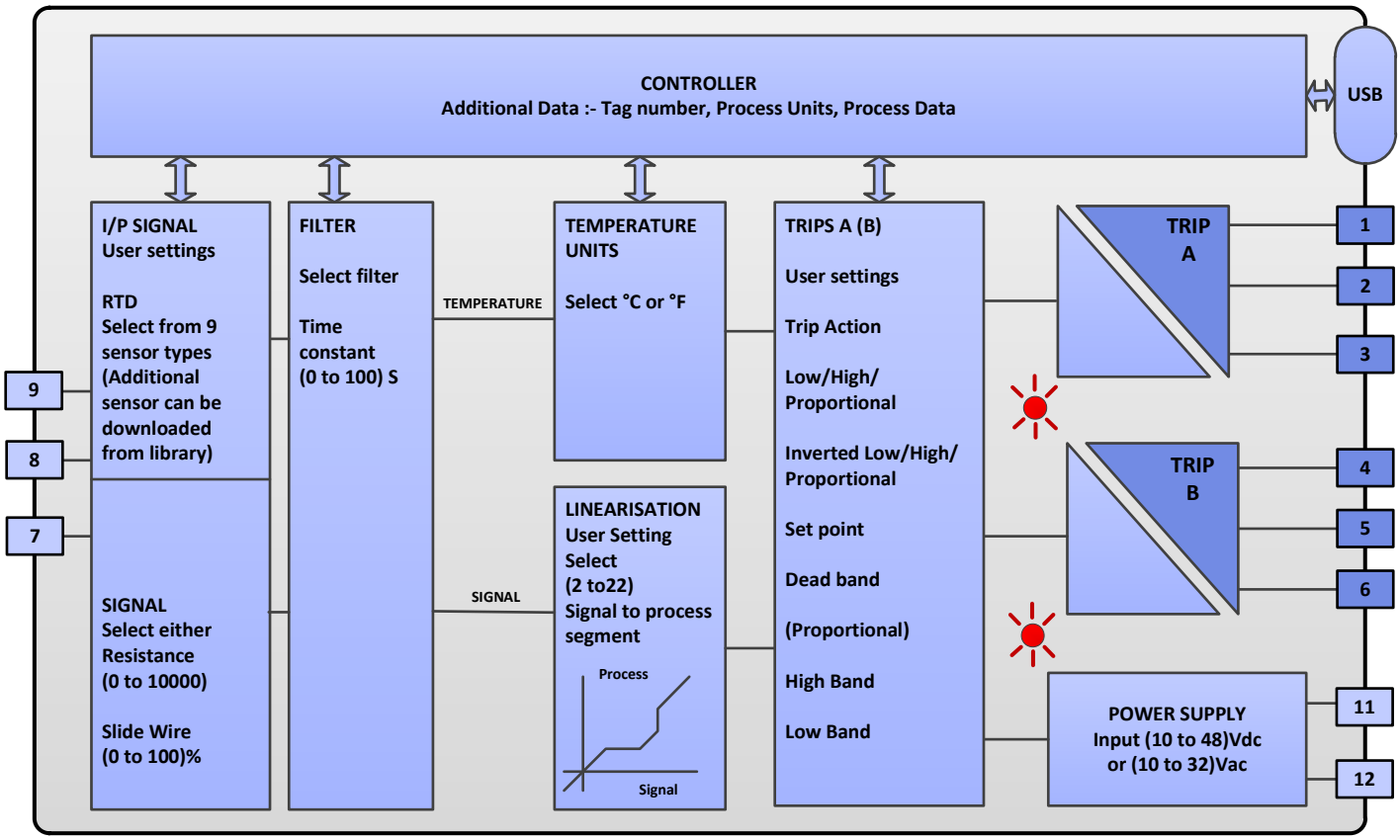
PLEASE REFER TO THE PRODUCT LABEL FOR MANUFACTURERS CONTACT DETAILS.

Every effort has been taken to ensure the accuracy of this document, however we do not accept responsibility for damage, injury, loss or expense resulting from errors and omissions, and we reserve the right of amendment without notice.

RECEIVE AND UNPACKING

Please inspect the packaging and instrument thoroughly for any signs of transit damage. If the instrument has been damaged, please notify your supplier immediately.

OPERATION (please refer to data sheet for full technical specification.)



RANGE LED

OK (GREEN)

SENSOR ERROR (RED)

ALARM LEDS

OFF

ON (RED)

POWER OFF

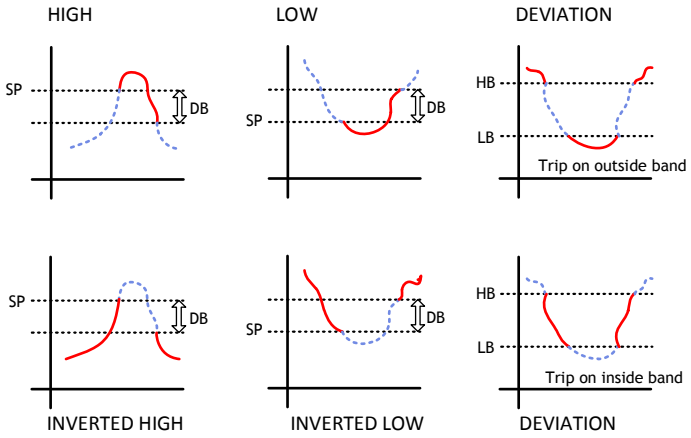
When power is off relays go into alarm state.

TRIP ACTIONS

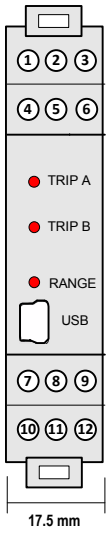
KEY
SP = Set point
DB = Dead Band
HB = High Band
LB = Low Band

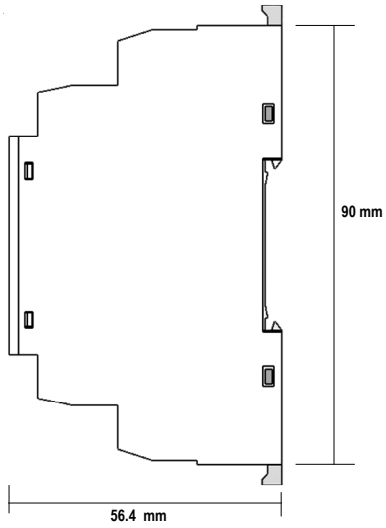
TRIP ON

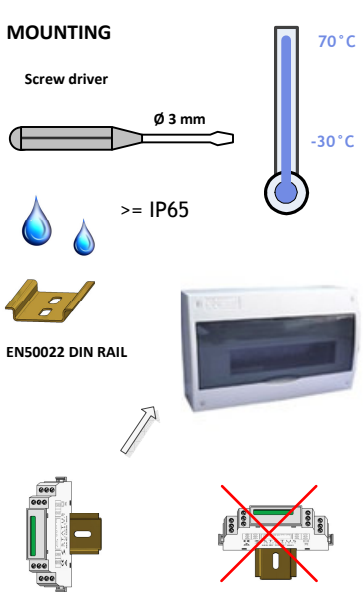
TRIP OFF

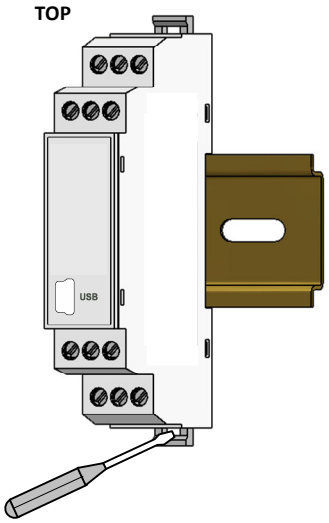


MECHANICAL INSTALLATION









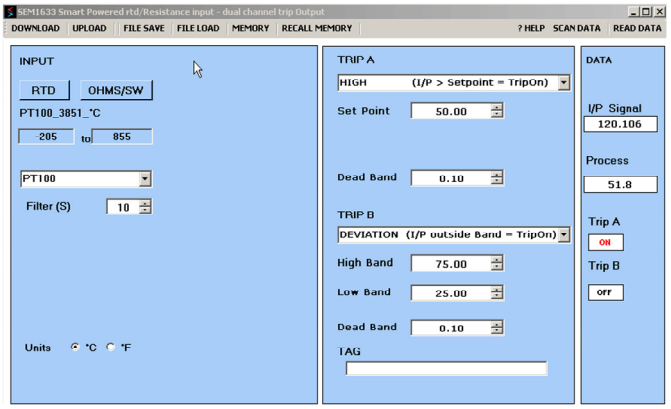
Style	**DIN 43880 (1 module width)**
Material	**Polyamide 6.6 self extinguishing**
Terminals	**Screw terminal**
Cable	**2.5 mm Max**
Colour	**Grey**

To fit or release module
Insert screw driver into slot and lever latch away from body

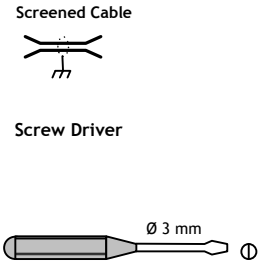
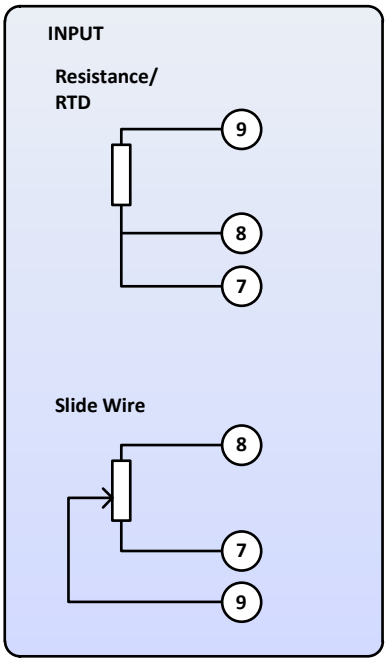
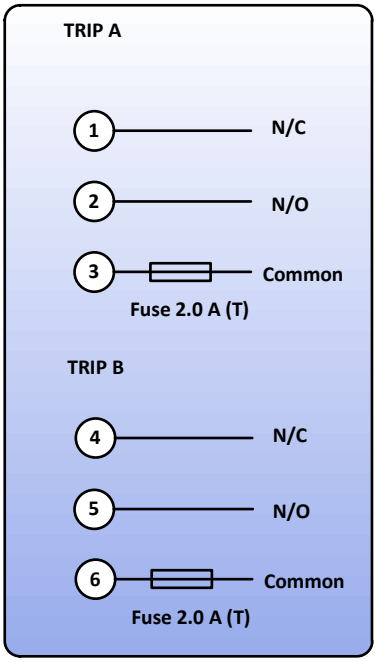
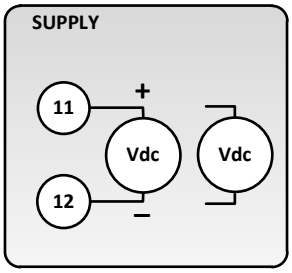
CONFIGURATION

This product is configured using the USB port of a PC running USB_Speed_Link software, available from your suppliers web site. During configuration the product is powered direct from the usb port, removing the need for additional power. If the user wishes to monitor live process data during configuration, then powered must be applied. Note the input and USB port of the device share the same ground, therefore care must be taken to ensure isolation between PC and input circuit. This is best achieved by using a portable laptop or notebook PC. USB_Speed_Link software is provided with detailed help menu to guide the user through the simple configuration procedure. Unless specified at the time of order this product is supplied with the default configuration listed below.

Factory default:	
Input type	**= PT100**
Units	**= °C**
Trip A	**= High**
Setpoint Trip A	**= 50**
Hysterisis Trip A	**= 0.1**
Trip B	**= High**
Setpoint Trip B	**= 50**
Hysterisis Trip B	**= 0.1**
Filter	**= 0**



ELECTRICAL INSTALLATION

1.0 TURN OFF SUPPLY BEFORE WORKING ON ANY ELECTRICAL CONNECTION.
2.0 MAX CONTACT RATING 250 V ac (30 V dc) @ 1 A. IMPORTANT! FUSE CONTACT CIRCUITS 2 A (T).
3.0 SUPPLY IS OVER VOLTAGE PROTECTED AND FUSED WITH INTERNAL RESSETTBLE FUSE.

INPUT CONNECTION
For cable length < 3 Metres no screen or twist pair required.
RTD inputs all three wire must be equal length (resistance).
Use recommended types for cable length (3 to 30) metres.